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3. (Amended) A rotating electric machine according to claim 1, characterized in that the cavity is defined by a spheroid.

4. (Amended) A rotating electric machine according to claim 1, characterized in that the cavity is defined by a sphere.

5. (Amended) A rotating electric machine according to claim 1, characterized in that the air gap, in a direction normal to the limiting surface of the cavity, has a uniform thickness.

6. (Amended) Use of a rotating electric machine according to claim 1 for connection to a power network.

7. (Amended) Use of a rotating electric machine according to claim 1 as a generator in a conveyance powered by an internal-combustion engine.

8. (Amended) Use of a rotating electric machine according to claim 1 as a prime mover for a conveyance.

9. (Amended) Use of a rotating electric machine according to claim 1 as a prime mover in an electrical domestic appliance.

10. (Amended) A method for manufacturing a rotating electric machine comprising a stator, which is provided with a core of a magnetizable material and a winding, and a rotor which, in relation to the stator, is adapted to rotate with one degree of freedom, which rotor is separated from the stator by an air gap, characterized in arranging a rounded cavity in the stator and having the cavity to surround the rotor at all sides.

11. (Amended) A method according to claim 10, characterized in forming the cavity to adapt the shape of a mirror symmetrical solid of revolution which diameter at least at the end parts is decreasing.

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12. (Amended) A method according to claim 10, characterized in forming the cavity to be limited by a spheroid.

13. (Amended) A method according to claim 10, characterized in forming the cavity to be limited by a sphere.

14. (Amended) A method for manufacturing a rotating electric machine comprising a stator with a core of a magnetizable material and a winding, and a rotor which, in relation to the stator, rotates with one degree of freedom, characterized in the steps of;

- forming the rotor to be limited by essentially a spheroid,
- providing a stator core containing a rounded cavity to surround the rotor, and
- providing the stator core a winding to form a complete stator.

15. (Amended) A rotating electric machine comprising a stator, including a core of a magnetizable material and a winding, and a rotor which, in relation to the stator, rotates with one degree of freedom around an axle, characterized in that the stator core comprises a rounded cavity surrounding the rotor at all sides, that when powered a balanced three-dimensionally directed magnetic field operates between the stator and the rotor, and that the magnetic field comprises magnetic vectors, each having an active component parallel to the rotor axle.

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17. (Amended) A rotating electric machine comprising a stator, including a core of a magnetizable material and a winding, and a rotor which, in relation to the stator, rotates with one degree of freedom, characterized in that the stator core comprises a rounded cavity surrounding the rotor at all sides and that the winding comprises a cable.

18. (Amended) A rotating electric machine according to claim 17, characterized in that the cable is a high-voltage cable.--